



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# TAF II p30 siRNA (m): sc-154050

## BACKGROUND

TFIID is a general transcription factor that initiates preinitiation complex assembly through direct interaction with the TATA promoter element. Functioning as a multisubunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs), TFIID mediates promoter responses to various transcriptional activators and repressors. TAF II p30, also known as TAF2A, TAF2H or TAFII30, is a 218 amino acid subunit of TFIID. Localized to the nucleus, TAF II p30 plays a role in transcriptional activation and is thought to be necessary for both cell cycle progression and cellular differentiation. Human TAF II p30 can be monomethylated at Lys-189, an event that increases TAF II p30 affinity for RNA polymerase (POLR), thereby enhancing POLR-mediated transcription.

## REFERENCES

1. Chehensse, V., Boulvin, C., Luce, S., Tora, L., Junien, C. and Henry, I. 1997. Assignment of the human TAFII30 gene (TAF2H) to human chromosome band 11p15.3 using somatic cell hybrids. *Cytogenet. Cell Genet.* 76: 41-42.
2. Metzger, D., Scheer, E., Soldatov, A. and Tora, L. 1999. Mammalian TAF(II)30 is required for cell cycle progression and specific cellular differentiation programmes. *EMBO J.* 18: 4823-4834.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 600475. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Liu, X., Tesfai, J., Evrard, Y.A., Dent, S.Y. and Martinez, E. 2003. c-Myc transformation domain recruits the human STAGA complex and requires TRRAP and GCN5 acetylase activity for transcription activation. *J. Biol. Chem.* 278: 20405-20412.
5. Guermah, M., Ge, K., Chiang, C.M. and Roeder, R.G. 2003. The TBN protein, which is essential for early embryonic mouse development, is an inducible TAFII implicated in adipogenesis. *Mol. Cell* 12: 991-1001.
6. Kouskouti, A., Scheer, E., Staub, A., Tora, L. and Talianidis, I. 2004. Gene-specific modulation of TAF10 function by SET9-mediated methylation. *Mol. Cell* 14: 175-182.
7. Soutoglou, E., Demeny, M.A., Scheer, E., Fienga, G., Sassone-Corsi, P. and Tora, L. 2005. The nuclear import of TAF10 is regulated by one of its three histone fold domain-containing interaction partners. *Mol. Cell. Biol.* 25: 4092-4104.
8. Couture, J.F., Collazo, E., Hauk, G. and Trievel, R.C. 2006. Structural basis for the methylation site specificity of SET7/9. *Nat. Struct. Mol. Biol.* 13: 140-146.

## CHROMOSOMAL LOCATION

Genetic locus: Taf10 (mouse) mapping to 7 E3.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## PRODUCT

TAF II p30 siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10  $\mu$ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see TAF II p30 shRNA Plasmid (m): sc-154050-SH and TAF II p30 shRNA (m) Lentiviral Particles: sc-154050-V as alternate gene silencing products.

## STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330  $\mu$ l of the RNase-free water provided. Resuspension of the siRNA duplex in 330  $\mu$ l of RNase-free water makes a 10  $\mu$ M solution in a 10  $\mu$ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

## APPLICATIONS

TAF II p30 siRNA (m) is recommended for the inhibition of TAF II p30 expression in mouse cells.

## SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10  $\mu$ M in 66  $\mu$ l. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

## RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor TAF II p30 gene expression knockdown using RT-PCR Primer: TAF II p30 (m)-PR: sc-154050-PR (20  $\mu$ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.